

Ronaldo C Faria

List of Publications by Year in descending order

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93
papers

2,996
citations

147801

31
h-index

182427

51
g-index

95
all docs

95
docs citations

95
times ranked

3794
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Ultrasensitive magnetogenoassay for detection of microRNA for diagnosis of metastatic lymph nodes in head and neck cancer using disposable electrodes. <i>Sensors and Actuators B: Chemical</i> , 2022, 352, 131040. | 7.8 | 4 |
| 2 | Membrane model as key tool in the study of glutathione-s-transferase mediated anticancer drug resistance. <i>Biomedicine and Pharmacotherapy</i> , 2022, 145, 112426. | 5.6 | 2 |
| 3 | COVID-19 diagnosis by SARS-CoV-2 Spike protein detection in saliva using an ultrasensitive magneto-assay based on disposable electrochemical sensor. <i>Sensors and Actuators B: Chemical</i> , 2022, 353, 131128. | 7.8 | 50 |
| 4 | Voltammetric sensing of tryptophan in dark chocolate bars, skimmed milk and urine samples in the presence of dopamine and caffeine. <i>Journal of Applied Electrochemistry</i> , 2022, 52, 1249-1257. | 2.9 | 8 |
| 5 | Prostate Cancer Diagnosis in the Clinic Using an 8-Protein Biomarker Panel. <i>Analytical Chemistry</i> , 2021, 93, 1059-1067. | 6.5 | 22 |
| 6 | Combining 3D printing and screen-printing in miniaturized, disposable sensors with carbon paste electrodes. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5633-5642. | 5.5 | 25 |
| 7 | A sensitive electrochemical detection of metronidazole in synthetic serum and urine samples using low-cost screen-printed electrodes modified with reduced graphene oxide and C60. <i>Journal of Pharmaceutical Analysis</i> , 2021, 11, 646-652. | 5.3 | 28 |
| 8 | Disposable and Flexible Electrochemical Paper-based Analytical Devices Using Low-cost Conductive Ink. <i>Electroanalysis</i> , 2021, 33, 1520-1527. | 2.9 | 20 |
| 9 | Disposable electrochemical microfluidic device for ultrasensitive detection of egg allergen in wine samples. <i>Talanta</i> , 2021, 232, 122447. | 5.5 | 17 |
| 10 | Non-enzymatic electrochemical determination of creatinine using a novel screen-printed microcell. <i>Talanta</i> , 2020, 207, 120277. | 5.5 | 35 |
| 11 | Role of sphingomyelin on the interaction of the anticancer drug gemcitabine hydrochloride with cell membrane models. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 196, 111357. | 5.0 | 14 |
| 12 | A Non-enzymatic Ag/FeOOH Sensor for Hydrogen Peroxide Determination using Disposable Carbon-based Electrochemical Cells. <i>Electroanalysis</i> , 2020, 32, 2231-2236. | 2.9 | 6 |
| 13 | Early Diagnosis of Alzheimer's Disease in Blood Using a Disposable Electrochemical Microfluidic Platform. <i>ACS Sensors</i> , 2020, 5, 1010-1019. | 7.8 | 40 |
| 14 | Converging Multidimensional Sensor and Machine Learning Toward High-Throughput and Biorecognition Element-Free Multidetermination of Extracellular Vesicle Biomarkers. <i>ACS Sensors</i> , 2020, 5, 1864-1871. | 7.8 | 20 |
| 15 | New Disposable Electrochemical Paper-based Microfluidic Device with Multiplexed Electrodes for Biomarkers Determination in Urine Sample. <i>Electroanalysis</i> , 2020, 32, 1075-1083. | 2.9 | 35 |
| 16 | Analytical Detection of Pesticides, Pollutants, and Pharmaceutical Waste in the Environment. <i>Environmental Chemistry for A Sustainable World</i> , 2020, , 87-129. | 0.5 | 6 |
| 17 | Spot test for fast determination of hydrogen peroxide as a milk adulterant by smartphone-based digital image colorimetry. <i>Microchemical Journal</i> , 2020, 157, 105042. | 4.5 | 38 |
| 18 | Ultrasensitive immunoassay for detection of Citrus tristeza virus in citrus sample using disposable microfluidic electrochemical device. <i>Talanta</i> , 2019, 205, 120110. | 5.5 | 32 |

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|----|--|------|-----------|
| 19 | Use of data processing for rapid detection of the prostate-specific antigen biomarker using immunomagnetic sandwich-type sensors. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 2171-2181. | 2.8 | 11 |
| 20 | Influence of Cathodic Pretreatment in the Electrocatalytic Properties PANI Modified Electrodes. <i>Electroanalysis</i> , 2019, 31, 766-770. | 2.9 | 1 |
| 21 | Electrochemical paper-based microfluidic device for high throughput multiplexed analysis. <i>Talanta</i> , 2019, 203, 280-286. | 5.5 | 72 |
| 22 | Novel enzyme-free immunomagnetic microfluidic device based on Co _{0.25} Zn _{0.75} Fe ₂ O ₄ for cancer biomarker detection. <i>Analytica Chimica Acta</i> , 2019, 1071, 59-69. | 5.4 | 23 |
| 23 | Disposable and flexible electrochemical sensor made by recyclable material and low cost conductive ink. <i>Journal of Electroanalytical Chemistry</i> , 2019, 840, 109-116. | 3.8 | 67 |
| 24 | Label-free evaluation of small-molecule-protein interaction using magnetic capture and electrochemical detection. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 2111-2119. | 3.7 | 7 |
| 25 | A new disposable microfluidic electrochemical paper-based device for the simultaneous determination of clinical biomarkers. <i>Talanta</i> , 2019, 195, 62-68. | 5.5 | 70 |
| 26 | Fast and flexible strategy to produce electrochemical paper-based analytical devices using a craft cutter printer to create wax barrier and screen-printed electrodes. <i>Talanta</i> , 2019, 195, 480-489. | 5.5 | 77 |
| 27 | Electrical detection of pathogenic bacteria in food samples using information visualization methods with a sensor based on magnetic nanoparticles functionalized with antimicrobial peptides. <i>Talanta</i> , 2019, 194, 611-618. | 5.5 | 60 |
| 28 | Fully disposable microfluidic electrochemical device for detection of estrogen receptor alpha breast cancer biomarker. <i>Biosensors and Bioelectronics</i> , 2018, 99, 156-162. | 10.1 | 73 |
| 29 | Simple disposable microfluidic device for <i>Salmonella typhimurium</i> detection by magneto-immunoassay. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 684-691. | 7.8 | 57 |
| 30 | Low-Cost and Rapid-Production Microfluidic Electrochemical Double-Layer Capacitors for Fast and Sensitive Breast Cancer Diagnosis. <i>Analytical Chemistry</i> , 2018, 90, 12377-12384. | 6.5 | 28 |
| 31 | Development of a simple electrochemical sensor for the simultaneous detection of anticancer drugs. <i>Journal of Electroanalytical Chemistry</i> , 2018, 827, 64-72. | 3.8 | 47 |
| 32 | Abstract A53: [10]-gingerol interferes with the adhesion of MDA-MB-231 tumor cells to extracellular matrix. , 2018, , . | | 0 |
| 33 | A simple method to produce 2D and 3D microfluidic paper-based analytical devices for clinical analysis. <i>Analytica Chimica Acta</i> , 2017, 957, 40-46. | 5.4 | 101 |
| 34 | ArtinM Binding Effinities and Kinetic Interaction with Leukemia Cells: A Quartz Crystal Microbalance Bioelectroanalysis on the Cytotoxic Effect. <i>Electroanalysis</i> , 2017, 29, 1554-1558. | 2.9 | 3 |
| 35 | Disposable Microfluidic Immunoarray Device for Sensitive Breast Cancer Biomarker Detection. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27433-27440. | 8.0 | 56 |
| 36 | 3D-printed supercapacitor-powered electrochemiluminescent protein immunoarray. <i>Biosensors and Bioelectronics</i> , 2016, 77, 188-193. | 10.1 | 147 |

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|----|---|------|-----------|
| 37 | Simple and rapid fabrication of disposable carbon-based electrochemical cells using an electronic craft cutter for sensor and biosensor applications. <i>Talanta</i> , 2016, 146, 381-387. | 5.5 | 59 |
| 38 | Construction of Disposable Carbon-Based Electrochemical Cells By Using Electronic Craft Cutter for Sensor and Biosensor Applications. <i>ECS Meeting Abstracts</i> , 2016, , . | 0.0 | 0 |
| 39 | New approach for natural products screening by real-time monitoring of hemoglobin hydrolysis using quartz crystal microbalance. <i>Analytica Chimica Acta</i> , 2015, 862, 86-93. | 5.4 | 12 |
| 40 | Automated Multiplexed ECL Immunoarrays for Cancer Biomarker Proteins. <i>Analytical Chemistry</i> , 2015, 87, 4472-4478. | 6.5 | 115 |
| 41 | An electrochemical analyzer for in situ flow determination of Pb(II) and Cd(II) in lake water with on-line data transmission and a global positioning system. <i>Analytical Methods</i> , 2015, 7, 3105-3112. | 2.7 | 19 |
| 42 | A low-cost automated flow analyzer based on low temperature co-fired ceramic and LED photometer for ascorbic acid determination. <i>Open Chemistry</i> , 2014, 12, 341-347. | 1.9 | 6 |
| 43 | Multivariate linear regression with variable selection by a successive projections algorithm applied to the analysis of anodic stripping voltammetry data. <i>Electrochimica Acta</i> , 2014, 127, 68-78. | 5.2 | 19 |
| 44 | Pb(II) determination in natural water using a carbon nanotubes paste electrode modified with crosslinked chitosan. <i>Microchemical Journal</i> , 2014, 116, 191-196. | 4.5 | 56 |
| 45 | On-line protein capture on magnetic beads for ultrasensitive microfluidic immunoassays of cancer biomarkers. <i>Biosensors and Bioelectronics</i> , 2014, 53, 268-274. | 10.1 | 108 |
| 46 | Electrochemical determination of estradiol using a thin film containing reduced graphene oxide and dihexadecylphosphate. <i>Materials Science and Engineering C</i> , 2014, 37, 14-19. | 7.3 | 67 |
| 47 | A versatile and robust electrochemical flow cell with a boron-doped diamond electrode for simultaneous determination of Zn ²⁺ and Pb ²⁺ ions in water samples. <i>Analytical Methods</i> , 2014, 6, 8526-8534. | 2.7 | 17 |
| 48 | A thermostated electrochemical flow cell with a coupled bismuth film electrode for square-wave anodic stripping voltammetric determination of cadmium(II) and lead(II) in natural, wastewater and tap water samples. <i>Talanta</i> , 2014, 126, 82-90. | 5.5 | 30 |
| 49 | A microfluidic electrochemiluminescent device for detecting cancer biomarker proteins. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 3831-3838. | 3.7 | 88 |
| 50 | Cathodically pretreated poly(1-aminoanthraquinone)-modified electrode for determination of ascorbic acid, dopamine, and uric acid. <i>Journal of Applied Electrochemistry</i> , 2013, 43, 919-926. | 2.9 | 19 |
| 51 | High-throughput metabolic genotoxicity screening with a fluidic microwell chip and electrochemiluminescence. <i>Lab on A Chip</i> , 2013, 13, 4554. | 6.0 | 29 |
| 52 | QCM immunoassay for recombinant cysteine peptidase: A potential protein biomarker for diagnosis of citrus canker. <i>Talanta</i> , 2013, 104, 193-197. | 5.5 | 20 |
| 53 | Electrochemically Prepared Polypyrrole-Carboxylic Acid Films: Synthesis Protocols and Studies on Biosensors. <i>Electroanalysis</i> , 2013, 25, 741-749. | 2.9 | 8 |
| 54 | Screening reactive metabolites bioactivated by multiple enzyme pathways using a multiplexed microfluidic system. <i>Analyst</i> , The, 2013, 138, 171-178. | 3.5 | 16 |

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|----|--|------|-----------|
| 55 | Electrochemical detection of Salmonella using gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2013, 40, 121-126. | 10.1 | 142 |
| 56 | Electrogravimetric Analysis by Quartz-Crystal Microbalance on the Consumption of the Neurotransmitter Acetylcholine by Acetylcholinesterase. <i>Analytical Letters</i> , 2013, 46, 258-265. | 1.8 | 7 |
| 57 | A Compact Miniaturized Flow System Based on Low-Temperature Co-fired Ceramic Technology Coupled to LED Mini-photometer for Determination of Dipyrone in Pharmaceutical Formulations. <i>Journal of the Brazilian Chemical Society</i> , 2013, , . | 0.6 | 2 |
| 58 | Chemometric Strategies to Develop a Nanocomposite Electrode for Simultaneous Determination of Ascorbic Acid, Dopamine, and Uric Acid. <i>Electroanalysis</i> , 2013, 25, 1988-1994. | 2.9 | 6 |
| 59 | Rapid Microfluidic Immunoassays of Cancer Biomarker Proteins Using Disposable Inkjet-Printed Gold Nanoparticle Arrays. <i>ChemistryOpen</i> , 2013, 2, 141-145. | 1.9 | 43 |
| 60 | Jacalin interaction with human immunoglobulin A1 and bovine immunoglobulin G1: Affinity constant determined by piezoelectric biosensing. <i>Glycobiology</i> , 2012, 22, 326-331. | 2.5 | 8 |
| 61 | Electrochemical Activation of the Natural Catalytic Cycle of Cytochrome P450s in Human Liver Microsomes. <i>Electroanalysis</i> , 2012, 24, 2049-2052. | 2.9 | 12 |
| 62 | DNA hybridization mechanism in an interfacial environment: What hides beneath first order k (s^{-1}) kinetic constant?. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 522-527. | 7.8 | 5 |
| 63 | Construction and application of a portable microcontrolled turbidimeter for the in situ determination of sulfate. <i>Quimica Nova</i> , 2012, 35, 802-807. | 0.3 | 6 |
| 64 | Constru o e aplica o de um minissensor de filme de bismuto utilizando materiais de baixo custo para determina es voltam tricas in loco. <i>Quimica Nova</i> , 2012, 35, 1016-1019. | 0.3 | 4 |
| 65 | Adsorption of cobalt ferrite nanoparticles within layer-by-layer films: a kinetic study carried out using quartz crystal microbalance. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 21233. | 2.8 | 22 |
| 66 | Flow Injection Spectrophotometric Determination of N-Acetylcysteine and Captopril Employing Prussian Blue Generation Reaction. <i>Analytical Letters</i> , 2011, 44, 2394-2405. | 1.8 | 19 |
| 67 | Flow Injection Spectrophotometric Determination of Dipyrone in Pharmaceutical Formulations Using Fe(III) as Reagent. <i>Analytical Letters</i> , 2011, 44, 340-348. | 1.8 | 12 |
| 68 | Real-time investigation of mannosyltransferase function of a <i>Xylella fastidiosa</i> recombinant GumH protein using QCM-D. <i>Biochemical and Biophysical Research Communications</i> , 2011, 408, 571-575. | 2.1 | 4 |
| 69 | Conductometric determination of propranolol hydrochloride in pharmaceuticals. <i>Eletica Quimica</i> , 2011, 36, 110-122. | 0.5 | 8 |
| 70 | A Low-Cost Portable Microcontrolled Nephelometer for Potassium Determination. <i>Journal of the Brazilian Chemical Society</i> , 2011, 22, 726-735. | 0.6 | 5 |
| 71 | Evaluation of turbidimetric and nephelometric techniques for analytical determination of n-acetylcysteine and thiamine in pharmaceutical formulations employing a lab-made portable microcontrolled turbidimeter and nephelometer. <i>Journal of the Brazilian Chemical Society</i> , 2011, 22, 1968-1978. | 0.6 | 12 |
| 72 | Electrochemical Determination of Norepinephrine on Cathodically Pretreated Poly(1,5-diaminonaphthalene) Modified Electrode. <i>Electroanalysis</i> , 2011, 23, 1359-1364. | 2.9 | 20 |

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|----|--|------|-----------|
| 73 | A compact miniaturized continuous flow system for the determination of urea content in milk. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1525-1533. | 3.7 | 19 |
| 74 | Real-time monitoring and kinetic parameter estimation of the affinity interaction of jArtinM and rArtinM with peroxidase glycoprotein by the electrogravimetric technique. <i>Biosensors and Bioelectronics</i> , 2010, 26, 36-42. | 10.1 | 32 |
| 75 | Differential Pulse Voltammetric Determination of Paraquat Using a Bismuth Film Electrode. <i>Electroanalysis</i> , 2010, 22, 1260-1266. | 2.9 | 69 |
| 76 | The Influence of the Cathodic Pretreatment on the Electrochemical Detection of Dopamine by Poly(1-aminanthracene) Modified Electrode. <i>Electroanalysis</i> , 2010, 22, 2284-2289. | 2.9 | 6 |
| 77 | Electrogravimetric Real-Time and in Situ Michaelis-Menten Enzymatic Kinetics: Progress Curve of Acetylcholinesterase Hydrolysis. <i>Journal of Physical Chemistry B</i> , 2010, 114, 16605-16610. | 2.6 | 12 |
| 78 | Anodic stripping voltammetric determination of copper(II) using a functionalized carbon nanotubes paste electrode modified with crosslinked chitosan. <i>Sensors and Actuators B: Chemical</i> , 2009, 142, 260-266. | 7.8 | 160 |
| 79 | The Influence of the Electrodeposition Conditions on the Electroanalytical Performance of the Bismuth Film Electrode for Lead Determination. <i>Electroanalysis</i> , 2008, 20, 2259-2263. | 2.9 | 29 |
| 80 | Quartz Crystal Microbalance monitoring the real-time binding of lectin with carbohydrate with high and low molecular mass. <i>Microchemical Journal</i> , 2008, 89, 153-158. | 4.5 | 24 |
| 81 | Synchrotron Structural Characterization of Electrochemically Synthesized Hexacyanoferrates Containing K ⁺ : A Revisited Analysis of Electrochemical Redox. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13264-13271. | 3.1 | 50 |
| 82 | Electrocatalytic Oxidation and Voltammetric Determination of Hydrazine in Industrial Boiler Feed Water Using a Cobalt Phthalocyanine-modified Electrode. <i>Analytical Letters</i> , 2008, 41, 1010-1021. | 1.8 | 39 |
| 83 | Titulações potenciométricas de cártions metálicos tendo como eletrodo indicador o sistema Cu/Cu(II)-EDTA. <i>Química Nova</i> , 2008, 31, 227-231. | 0.3 | 2 |
| 84 | Optical, electrochemical and electrogravimetric behavior of poly(1-methoxy-4-(2-ethyl-hexyloxy)-p-phenylene vinylene) (MEH-PPV) films. <i>Electrochimica Acta</i> , 2007, 52, 4299-4304. | 5.2 | 26 |
| 85 | EQCM study during lithium insertion/deinsertion processes in Nb ₂ O ₅ films prepared by polymeric precursor method. <i>Solid State Ionics</i> , 2005, 176, 1175-1180. | 2.7 | 11 |
| 86 | Spectroscopic, electrochemical, and microgravimetric studies on palladium phthalocyanine films. <i>Journal of Porphyrins and Phthalocyanines</i> , 2005, 09, 16-21. | 0.8 | 12 |
| 87 | Sol-Gel Non-hydrolytic Synthesis of a Nanocomposite Electrolyte for Application in Lithium-ion Devices. <i>Materials Research Society Symposia Proceedings</i> , 2004, 822, S3.1.1. | 0.1 | 0 |
| 88 | Li ⁺ insertion into pure and doped amorphous WO ₃ films. Correlations between coloration kinetics, charge and mass accumulation. <i>Solid State Ionics</i> , 2003, 158, 415-426. | 2.7 | 27 |
| 89 | Electrochromic properties of lithium doped WO ₃ films prepared by the sol-gel process. <i>Electrochimica Acta</i> , 2001, 46, 1977-1981. | 5.2 | 41 |
| 90 | Electrochromic properties of undoped and lithium doped Nb ₂ O ₅ films prepared by the sol-gel method. <i>Electrochimica Acta</i> , 2001, 46, 2113-2118. | 5.2 | 29 |

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|----|--|-----|-----------|
| 91 | Synthesis and electrochemical response of poly-(1-aminoanthracene) films. <i>Electrochimica Acta</i> , 1999, 44, 1597-1605. | 5.2 | 9 |
| 92 | Hydrogen ion selective electrode based on poly(1-aminoanthracene) film. <i>Analytica Chimica Acta</i> , 1998, 377, 21-27. | 5.4 | 30 |
| 93 | A Novel Synthetic Route to Nb ₂ O ₅ Thin Films for Electrochromic Devices. <i>Journal of the Electrochemical Society</i> , 1994, 141, L29-L30. | 2.9 | 37 |